

FCC CERTIFICATION TEST REPORT

FOR

Applicant	:	Guangzhou Shiyuan Electronics Co., Ltd.
Address	:	No.6, Fourth Yunpu Road, Huangpu District, Guangzhou City, Guangdong Province, P.R. China
Equipment under Test	:	Car Audio Navigation / Multimedia Navigation Receiver
Model No.	:	U702P, U701P, U621P, U703PT, PCP9800, BVCP9675, NV2400, PCP9800A, BVCP9675A, Santa Paula 750, Monte Carlo 750
Trade Mark	:	N/A
FCC ID	:	OGX-UNIV701-2
Manufacturer	:	Guangzhou Shiyuan Electronics Co., Ltd.
Address	:	No.6, Fourth Yunpu Road, Huangpu District, Guangzhou City, Guangdong Province, P.R. China

Issued By: Dongguan Dongdian Testing Service Co., Ltd.

Add: No. 17, Zongbu Road 2, Songshan Lake Sci&Tech, Industry Park, Dongguan City,
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REPORT

TABLE OF CONTENTS

	Test report declares.....	4
1.	Summary of test results	4
2.	General test information	5
2.1.	Description of EUT	5
2.2.	Difference of Models	5
2.3.	Assistant equipment used for test.....	5
2.4.	Block diagram of EUT configuration for test	5
2.5.	Deviations of test standard	6
2.6.	Test environment conditions	6
2.7.	Test laboratory.....	6
2.8.	Measurement uncertainty	6
3.	Equipment used during test	7
4.	Radiated emission	8
4.1.	Block diagram of test setup	8
4.2.	Limit	9
4.3.	Test Procedure.....	10
4.4.	Test result	11
5.	Test setup photograph	19
6.	Photos of the EUT	20

TEST REPORT DECLARE

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Trade Mark	:	N/A
Manufacturer	:	Guangzhou Shiyuan Electronics Co., Ltd.
Address	:	No.6, Fourth Yunpu Road, Huangpu District, Guangzhou City, Guangdong Province, P.R. China

Test Standard Used:

FCC Rules and Regulations Part 15 Subpart C.

Test procedure used:

ANSI C63.10:2013

We Declare:

The equipment described above is tested by Dongguan Dongdian Testing Service Co., Ltd and in the configuration tested the equipment complied with the standards specified above. The test results are contained in this test report and Dongguan Dongdian Testing Service Co., Ltd is assumed of full responsibility for the accuracy and completeness of these tests.

After test and evaluation, our opinion is that the equipment provided for test compliance with the requirement of the above FCC standards.

Report No:	DDT-R17101801-1E2		
Date of Receipt:	Oct. 18, 2017	Date of Test:	Oct. 22, 2017

Prepared By:


Leo Liu/Engineer

Approved By:


Kevin Feng/EMC Manager

Note: This report applies to above tested sample only. This report shall not be reproduced in parts without written approval of Dongguan Dongdian Testing Service Co., Ltd.

1. Summary of test results

Description of Test Item	Standard	Results
Radiated Emission	FCC Part 15: 15.209 FCC Part 15: 15.247 ANSI C63.10:2013	PASS
Note 1: N/A is an abbreviation for Not Applicable. Note 2: This report is issued according to above-mentioned requirements based on test report DDT-R16Q1011-1E2 and shall be used together with it. The products change the panel and panel driver. Based on engineering judgement, only Radiated Emission was retested, all other items test data are from original report DDT-R16Q1011-1E2.		

2. General test information

2.1. Description of EUT

EUT* Name	: Car Audio Navigation / Multimedia Navigation Receiver
Model Number	: U702P, U701P, U621P, U703PT, PCP9800, BVCP9675, NV2400, PCP9800A, BVCP9675A, Santa Paula 750, Monte Carlo 750
EUT function description	: Please reference user manual of this device
Power supply	: DC 12V, 15A, 108W
Radio Specification	: Bluetooth V2.1+EDR
Operation frequency	: 2402MHz -2480MHz
Modulation	: GFSK, $\pi/4$ QPSK, 8-DPSK
Data rate	: 1Mbps, 2Mbps, 3Mbps
Antenna Type	: Integrated antenna, maximum PK gain: 0.5dBi
Sample Type	: Series production

Note: EUT is the ab. of equipment under test.

2.2. Difference of Models

Model	Difference
U702P, BVCP9675, BVCP9675A, Monte Carlo 750	Panel and panel driver is different
U701P, PCP9800, PCP9800A	
U621P, NV2400	
U703PT, Santa Paula 750	

2.3. Assistant equipment used for test

Description of Assistant equipment	Manufacturer	Model number or Type	EMC Compliance	Other
N/A	N/A	N/A	N/A	N/A

2.4. Block diagram of EUT configuration for test



Test software: BlueSuite2.6.0

The test software was used to control EUT work in Continuous TX mode, and select test channel, wireless mode as blow table.

Tested mode, channel, information		
Mode	Channel	Frequency (MHz)
GFSK hopping on Tx Mode	CH0 to CH78	2402 to 2480
$\pi/4$ QPSK Hopping on TX mode	CH0 to CH78	2402 to 2480
8-DPSK hopping on Tx Mode	CH0 to CH78	2402 to 2480
GFSK hopping off Tx Mode	CH0	2402
	CH39	2441
	CH78	2480
$\pi/4$ QPSK hopping off Tx Mode	CH0	2402
	CH39	2441
	CH78	2480
8-DPSK hopping off Tx Mode	CH0	2402
	CH39	2441
	CH78	2480

Note: For $\pi/4$ QPSK its same modulation type with 8-DPSK, and based exploratory test, there is no significant difference of that two types test result, so except output power, all other items final test were only performed with the worse case 8-DPSK and GFSK.

2.5. Deviations of test standard

No Deviation.

2.6. Test environment conditions

During the measurement the environmental conditions were within the listed ranges:

Temperature range:	21-25℃
Humidity range:	40-75%
Pressure range:	86-106kPa

2.7. Test laboratory

Dongguan Dongdian Testing Service Co., Ltd

Add: No. 17, Zongbu Road 2, Songshan Lake Sci&Tech, Industry Park, Dongguan City, Guangdong Province, China, 523808 Tel: +86-0769-22891499 <http://www.dgddt.com>

FCC Registration Number: 270092 Industry Canada site registration number: 10288A-1

2.8. Measurement uncertainty

Test Item	Uncertainty
Bandwidth	1.1%
Peak Output Power(Conducted)(Spectrum analyzer)	0.86dB(10 MHz $\leq$ f < 3.6GHz);
	1.38dB(3.6GHz $\leq$ f < 8GHz)
Peak Output Power(Conducted)(Power Sensor)	0.74dB
Power Spectral Density	0.74dB(10 MHz $\leq$ f < 3.6GHz);
	1.38dB(3.6GHz $\leq$ f < 8GHz)
Conducted spurious emissions	0.86dB(10 MHz $\leq$ f < 3.6GHz);
	1.40dB(3.6GHz $\leq$ f < 8GHz)
	1.66dB(8GHz $\leq$ f < 22GHz)
Uncertainty for radio frequency (RBW<20KHz)	3 $\times$ 10 ⁻⁸

Temperature	0.4℃
Humidity	2%
Uncertainty for Radiation Emission test (30MHz-1GHz)	4.70 dB (Antenna Polarize: V)
	4.84 dB (Antenna Polarize: H)
Uncertainty for Radiation Emission test (1GHz-18GHz)	4.10dB(1-6GHz)
	4.40dB (6GHz-18Gz)
Uncertainty for Power line conduction emission test	3.32dB (150KHz-30MHz)
Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.	

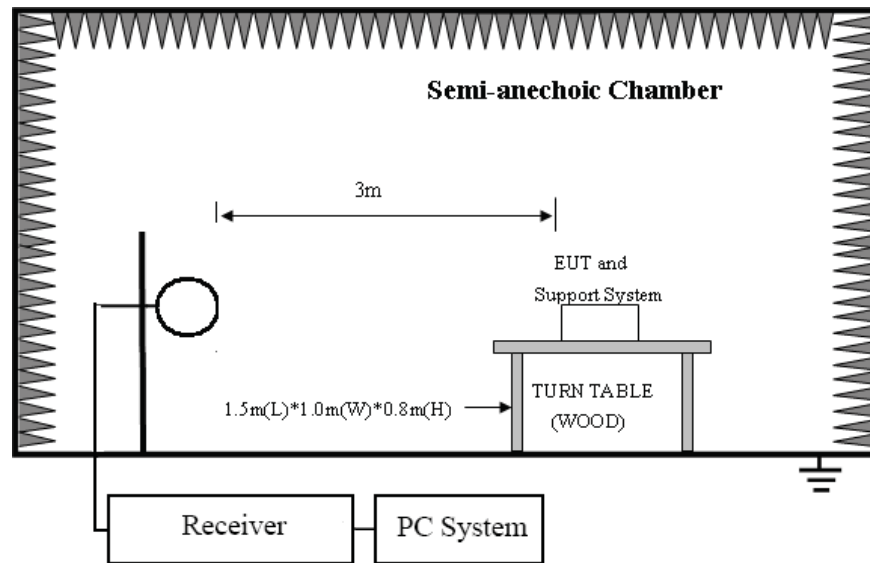
3. Equipment used during test

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
RE/RF in chamber					
EMI Test Receiver	R&S	ESU8	100316	Oct. 21, 2017	1Year
Spectrum analyzer	R&S	FSU26	1166.1660.26	Oct. 21, 2017	1Year
Trilog Broadband Antenna	Schwarzbeck	VULB9163	9163-462	Oct. 21, 2017	1 Year
Active Loop antenna	Schwarzbeck	FMZB-1519	1519-038	Oct. 21, 2017	1 Year
Double Ridged Horn Antenna	R&S	HF907	100276	Oct. 21, 2017	1 Year
Pre-amplifier	A.H.	PAM-0118	360	Oct. 21, 2017	1 Year
RF Cable	HUBSER	CP-X2	W11.03	Oct. 21, 2017	1Year
RF Cable	HUBSER	CP-X1	W12.02	Oct. 21, 2017	1 Year
MI Cable	HUBSER	C10-01-01-1M	1091629	Oct. 21, 2017	1 Year
Test software	Audix	E3	V 6.11111b	/	/

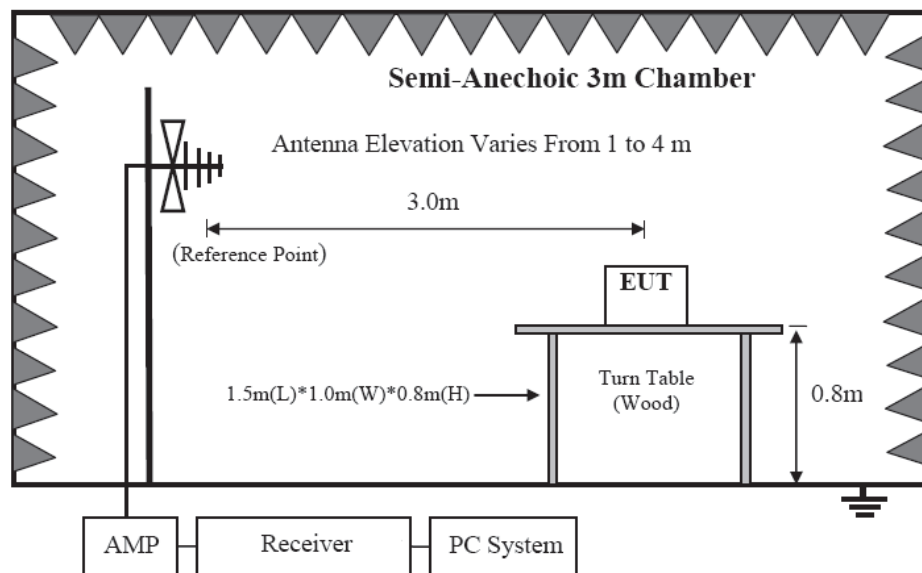
4. Radiated emission

4.1. Block diagram of test setup

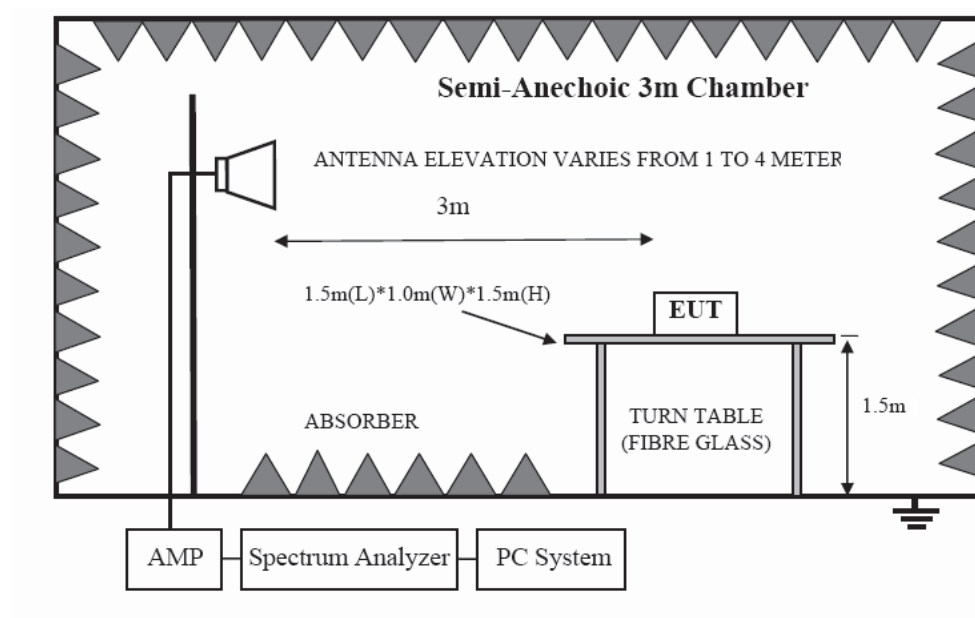
In 3m Anechoic Chamber Test Setup Diagram for 9KHz-30MHz



In 3m Anechoic Chamber Test Setup Diagram for below 1GHz



In 3m Anechoic Chamber Test Setup Diagram for frequency above 1GHz



Note: For harmonic emissions test a appropriate high pass filter was inserted in the input port of AMP.

4.2. Limit

9.2.1 FCC 15.205 Restricted frequency band

MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
¹ 0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52475 - 156.52525	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.7 - 156.9	2690 - 2900	22.01 - 23.12
8.41425 - 8.41475	162.0125 - 167.17	3260 - 3267	23.6 - 24.0
12.29 - 12.293	167.72 - 173.2	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	240 - 285	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	322 - 335.4	3600 - 4400	(²)

9.2.2 FCC 15.209 Limit.

FREQUENCY MHz	DISTANCE Meters	FIELD STRENGTHS LIMIT	
		μV/m	dB(μV)/m
0.009 ~ 0.490	300	2400/F(KHz)	67.6-20log(F)
0.490 ~ 1.705	30	24000/F(KHz)	87.6-20log(F)
1.705 ~ 30.0	30	30	29.54
30 ~ 88	3	100	40.0
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46.0
960 ~ 1000	3	500	54.0

Above 1000	3	74.0 dB(μV)/m (Peak) 54.0 dB(μV)/m (Average)
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Note: (1) The emission limits shown in the above table are based on measurements employing a CISPR QP detector except for the frequency bands 9-90KHz, 110-490KHz and above 1000MHz. Radiated emissions limits in these three bands are based on measurements employing an average detector.

(2) At frequencies below 30MHz, measurement may be performed at a distance closer than that specified, and the limit at closer measurement distance can be extrapolated by below formula:

$$\text{Limit}_{3m}(\text{dBuV/m}) = \text{Limit}_{30m}(\text{dBuV/m}) + 40\text{Log}(30m/3m)$$

9.2.3 Limit for this EUT

All the emissions appearing within 15.205 restricted frequency bands shall not exceed the limits shown in 15.209, all the other emissions shall be at least 20dB below the fundamental emissions, or comply with 15.209 limits.

4.3. Test Procedure

- (1) EUT was placed on a non-metallic table, 150 cm above the ground plane inside a semi-anechoic chamber.
- (2) Test antenna was located 3m from the EUT on an adjustable mast, and the antenna used as below table.

Test frequency range	Test antenna used
9KHz-30MHz	Active Loop antenna
30MHz-1GHz	Trilog Broadband Antenna
1GHz-18GHz	Double Ridged Horn Antenna(1GHz-18GHz)
18GHz-40GHz	Horn Antenna(18GHz-40GHz)

According ANSI C63.10:2013 clause 6.4.4.2 and 6.5.3, for measurements below 30 MHz, the loop antenna was positioned with its plane vertical from the EUT and rotated about its vertical axis for maximum response at each azimuth position around the EUT. And the loop antenna also be positioned with its plane horizontal at the specified distance from the EUT. The center of the loop is 1 m above the ground. for measurement above 30MHz, the Trilog Broadband Antenna or Horn Antenna was located 3m from EUT, Measurements were made with the antenna positioned in both the horizontal and vertical planes of Polarization, and the measurement antenna was varied from 1 m to 4 m. in height above the reference ground plane to obtain the maximum signal strength.

(3) Below pre-scan procedure was first performed in order to find prominent frequency spectrum radiated emissions from 9KHz to 25GHz:

- (a) Scanning the peak frequency spectrum with the antenna specified in step (3), and the EUT was rotated 360 degree, the antenna height was varied from 1m to 4m(Except loop antenna, it's fixed 1m above ground.)
- (b) Change work frequency or channel of device if practicable.
- (c) Change modulation type of device if practicable.
- (d) Change power supply range from 85% to 115% of the rated supply voltage
- (e) Rotated EUT though three orthogonal axes to determine the attitude of EUT arrangement produces

highest emissions.

Spectrum frequency from 9KHz to 25GHz (tenth harmonic of fundamental frequency) was investigated, and no any obvious emission were detected from 18GHz to 25GHz, so below final test was performed with frequency range from 9KHz to 18GHz.

- (4) For final emissions measurements at each frequency of interest, the EUT was rotated and the antenna height was varied between 1m and 4m in order to maximize the emission. Measurements in both horizontal and vertical polarities were made and the data was recorded. In order to find the maximum emission, the relative positions of equipments and all of the interface cables were changed according to ANSI C63.10 2013 on Radiated Emission test.
- (5) The emissions from 9KHz to 1GHz were measured based on CISPR QP detector except for the frequency bands 9-90KHz, 110-490KHz, for emissions from 9KHz-90KHz, 110KHz-490KHz and above 1GHz were measured based on average detector, for emissions above 1GHz, peak emissions also be measured and need comply with Peak limit.
- (6) The emissions from 9KHz to 1GHz, QP or average values were measured with EMI receiver with below RBW.

Frequency band	RBW
9KHz-150KHz	200Hz
150KHz-30MHz	9KHz
30MHz-1GHz	120KHz

- (7) For emissions above 1GHz, both Peak and Average level were measured with Spectrum Analyzer, and the RBW is set at 1MHz, VBW is set at 3MHz for Peak measure; RMS detector RBW 1MHz VBW 3MHz for Average measure(according ANSI C63.10:2013 clause 4.2.3.2.3 procedure for average measure).
- (8) X axis, Y axis, Z axis are tested, and worse setup X axis is reported.

4.4. Test result

PASS. (See below detailed test result)

All the emissions except fundamental emission from 9 KHz to 25GHz were comply with 15.209 limits.

Note1: According exploratory test no any obvious emission were detected from 9KHz to 30MHz and 18GHz to 25GHz, so the final test was performed with frequency range from 30MHz to 18GHz and recorded in below.

Note2: For emissions below 1GHz, according exploratory explorer test, when change Tx mode and channel, have no distinct influence on emissions level, so for emissions below 1GHz, the final test was only performed with EUT working in GFSK, Tx 2441MHz mode.

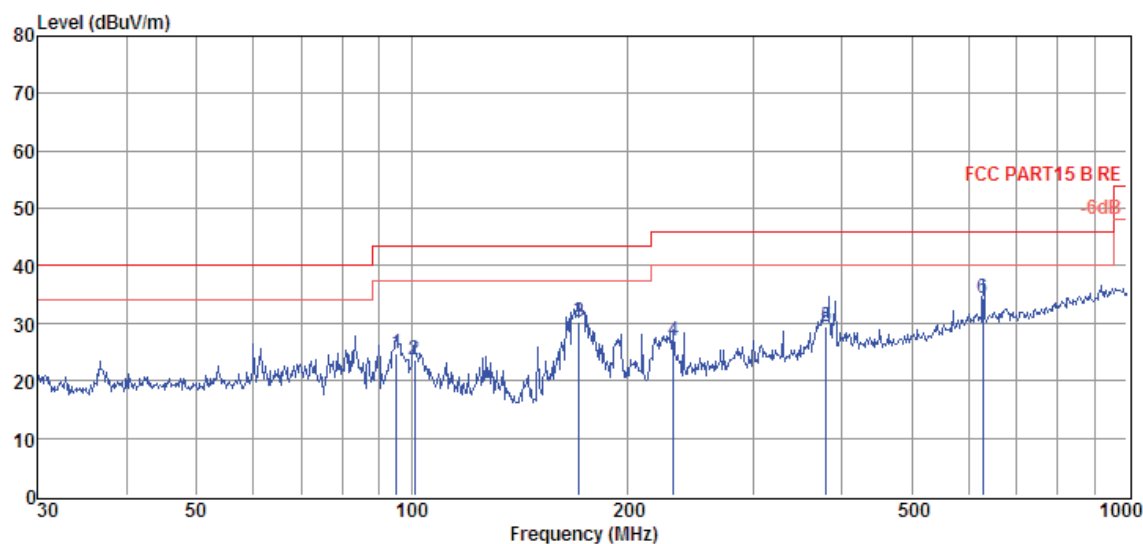
Note3: For emissions above 1GHz. If peak results comply with AV limit, AV Result is deemed to comply with AV limit.

Radiated Emission test (below 1GHz)

TR-4-E-009 Radiated Emission Test Result

Test Site : DDT 3m Chamber 1# **D:\2017 RE1# Report Data\Q17101801-1E\RE.EM6**
Test Date : 2017-10-22 **Tested By** : Jerry
EUT : Car audio navigation **Model Number** : U703PT
Power Supply : DC 12V **Test Mode** : Tx mode
Condition : Temp:24.5°C,Humi:55%,
 : Press:100.1kPa **Antenna/Distance** : 2016 VULB9163 1#/3m/VERTICAL
Memo :

Data: 13



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	95.09	8.91	11.61	4.26	24.78	43.50	-18.72	QP	VERTICAL
2	100.93	7.48	11.92	4.31	23.71	43.50	-19.79	QP	VERTICAL
3	171.39	16.94	8.54	4.73	30.21	43.50	-13.29	QP	VERTICAL
4	232.53	10.22	11.65	5.06	26.93	46.00	-19.07	QP	VERTICAL
5	379.91	8.50	15.20	5.72	29.42	46.00	-16.58	QP	VERTICAL
6	629.48	8.26	19.40	6.60	34.26	46.00	-11.74	QP	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

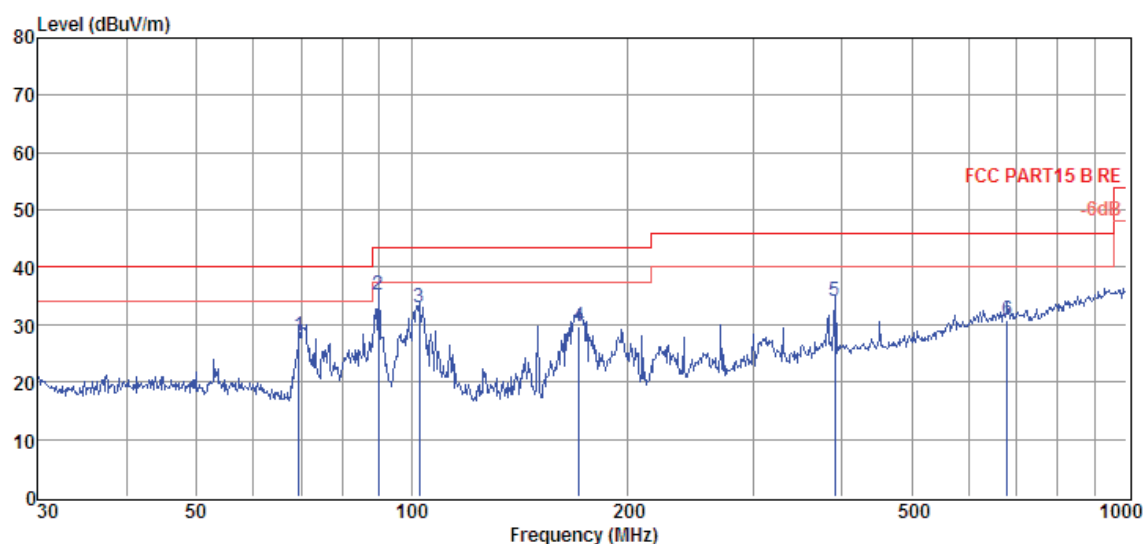
2. If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.

3. Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site : DDT 3m Chamber 1# **D:\2017 RE1# Report Data\Q17101801-1E\RE.EM6**
Test Date : 2017-10-22 **Tested By** : Jerry
EUT : Car audio navigation **Model Number** : U703PT
Power Supply : DC 12V **Test Mode** : Tx mode
Condition : Temp:24.5°C,Humi:55%,
Antenna/Distance : 2016 VULB9163 1#/3m/HORIZONTAL
Press:100.1kPa
Memo :

Data: 14



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	69.60	16.38	7.65	4.06	28.09	40.00	-11.91	QP	HORIZONTAL
2	89.91	20.22	10.67	4.22	35.11	43.50	-8.39	QP	HORIZONTAL
3	102.36	16.91	11.81	4.31	33.03	43.50	-10.47	QP	HORIZONTAL
4	171.39	16.37	8.54	4.73	29.64	43.50	-13.86	QP	HORIZONTAL
5	390.72	12.69	15.51	5.76	33.96	46.00	-12.04	QP	HORIZONTAL
6	679.96	4.17	19.90	6.77	30.84	46.00	-15.16	QP	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

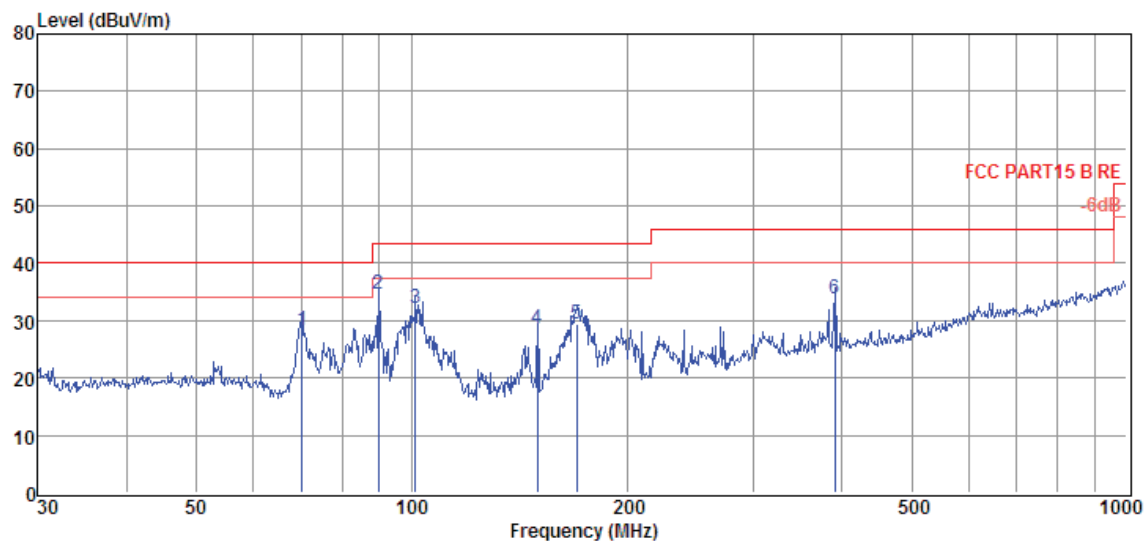
2. If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.

3. Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site : DDT 3m Chamber 1# **D:\2017 RE1# Report Data\Q17101801-1E\RE.EM6**
Test Date : 2017-10-22 **Tested By** : Jerry
EUT : Car audio navigation **Model Number** : U701P
Power Supply : DC 12V **Test Mode** : Tx mode
Condition : Temp:24.5°C,Humi:55%,
Antenna/Distance : 2016 VULB9163 1#/3m/HORIZONTAL
Press:100.1kPa
Memo :

Data: 15



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	70.34	16.86	7.43	4.06	28.35	40.00	-11.65	QP	HORIZONTAL
2	89.91	19.67	10.67	4.22	34.56	43.50	-8.94	QP	HORIZONTAL
3	101.29	16.08	11.90	4.31	32.29	43.50	-11.21	QP	HORIZONTAL
4	150.01	16.39	7.50	4.60	28.49	43.50	-15.01	QP	HORIZONTAL
5	170.20	16.30	8.42	4.72	29.44	43.50	-14.06	QP	HORIZONTAL
6	390.72	12.50	15.51	5.76	33.77	46.00	-12.23	QP	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

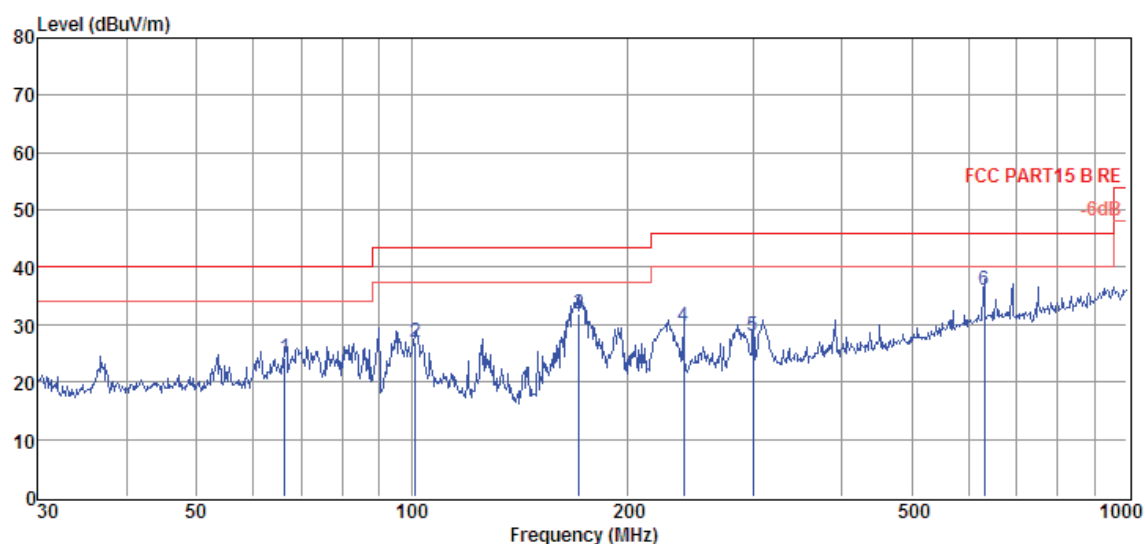
2. If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.

3. Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site : DDT 3m Chamber 1# **D:\2017 RE1# Report Data\Q17101801-1E\RE.EM6**
Test Date : 2017-10-22 **Tested By** : Jerry
EUT : Car audio navigation **Model Number** : U701P
Power Supply : DC 12V **Test Mode** : Tx mode
Condition : Temp:24.5°C,Humi:55%,
Press:100.1kPa **Antenna/Distance** : 2016 VULB9163 1#/3m/VERTICAL
Memo :

Data: 16



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	66.50	11.20	8.88	4.03	24.11	40.00	-15.89	QP	VERTICAL
2	101.29	10.66	11.90	4.31	26.87	43.50	-16.63	QP	VERTICAL
3	171.39	18.60	8.54	4.73	31.87	43.50	-11.63	QP	VERTICAL
4	239.99	12.61	11.90	5.09	29.60	46.00	-16.40	QP	VERTICAL
5	300.37	9.17	13.41	5.38	27.96	46.00	-18.04	QP	VERTICAL
6	631.69	9.93	19.38	6.61	35.92	46.00	-10.08	QP	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

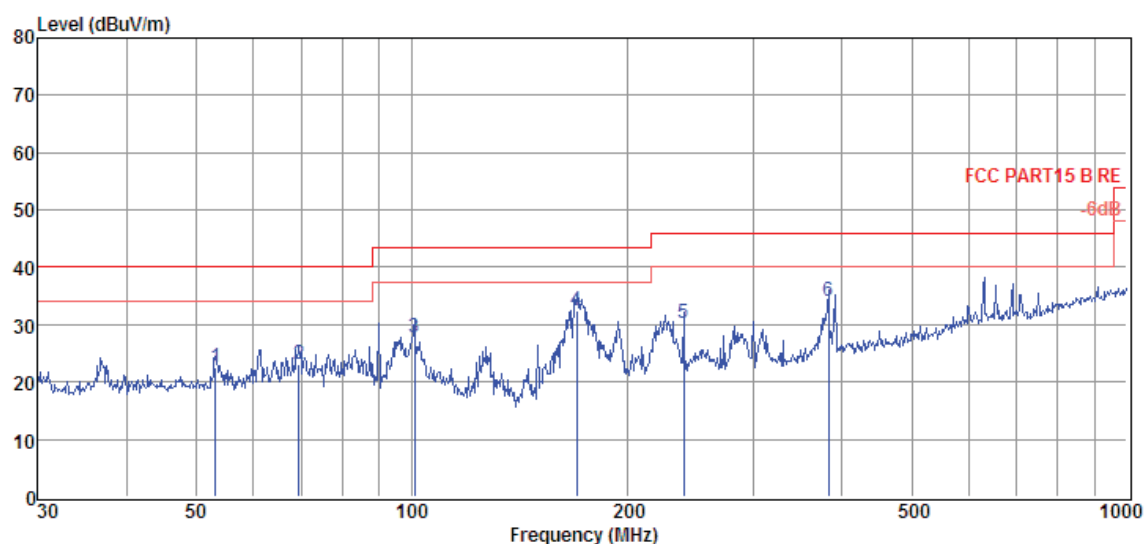
2. If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.

3. Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site : DDT 3m Chamber 1# **D:\2017 RE1# Report Data\Q17101801-1E\RE.EM6**
Test Date : 2017-10-22 **Tested By** : Jerry
EUT : Car audio navigation **Model Number** : U621P
Power Supply : DC 12V **Test Mode** : Tx mode
Condition : Temp:24.5°C,Humi:55%,
Press:100.1kPa **Antenna/Distance** : 2016 VULB9163 1#/3m/VERTICAL
Memo :

Data: 17



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	53.13	6.97	11.70	3.92	22.59	40.00	-17.41	QP	VERTICAL
2	69.60	11.30	7.65	4.06	23.01	40.00	-16.99	QP	VERTICAL
3	100.93	11.59	11.92	4.31	27.82	43.50	-15.68	QP	VERTICAL
4	170.20	19.38	8.42	4.72	32.52	43.50	-10.98	QP	VERTICAL
5	239.99	13.23	11.90	5.09	30.22	46.00	-15.78	QP	VERTICAL
6	382.59	12.99	15.28	5.73	34.00	46.00	-12.00	QP	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

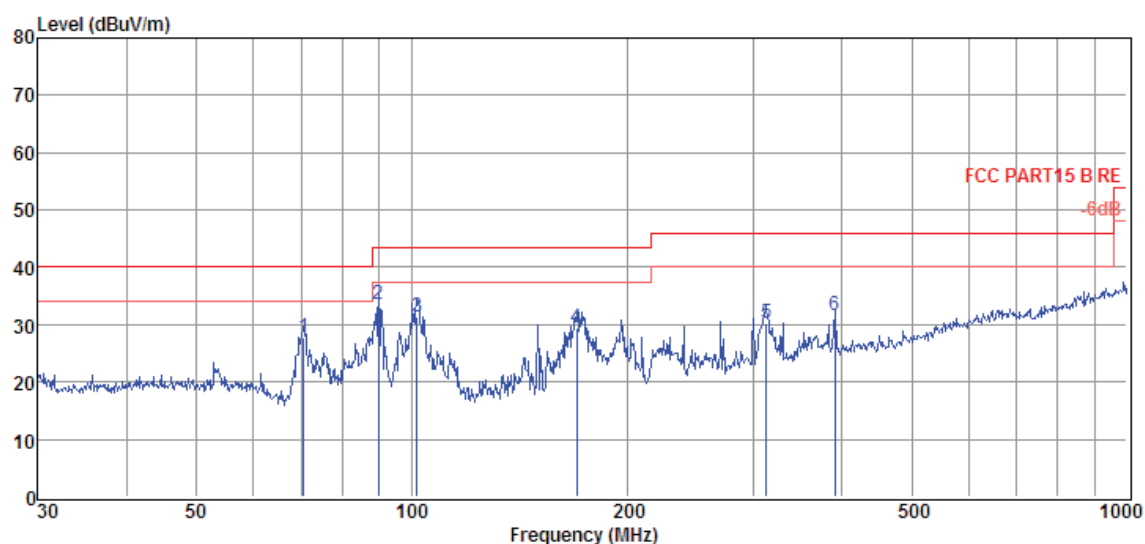
2. If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.

3. Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site : DDT 3m Chamber 1# **D:\2017 RE1# Report Data\Q17101801-1E\RE.EM6**
Test Date : 2017-10-22 **Tested By** : Jerry
EUT : Car audio navigation **Model Number** : U621P
Power Supply : DC 12V **Test Mode** : Tx mode
Condition : Temp:24.5°C,Humi:55%,
Antenna/Distance : 2016 VULB9163 1#/3m/HORIZONTAL
Press:100.1kPa
Memo :

Data: 18



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	70.58	16.25	7.38	4.07	27.70	40.00	-12.30	QP	HORIZONTAL
2	89.91	18.68	10.67	4.22	33.57	43.50	-9.93	QP	HORIZONTAL
3	101.64	15.16	11.87	4.31	31.34	43.50	-12.16	QP	HORIZONTAL
4	170.20	16.20	8.42	4.72	29.34	43.50	-14.16	QP	HORIZONTAL
5	313.28	11.24	13.63	5.43	30.30	46.00	-15.70	QP	HORIZONTAL
6	390.72	10.25	15.51	5.76	31.52	46.00	-14.48	QP	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

2. If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.

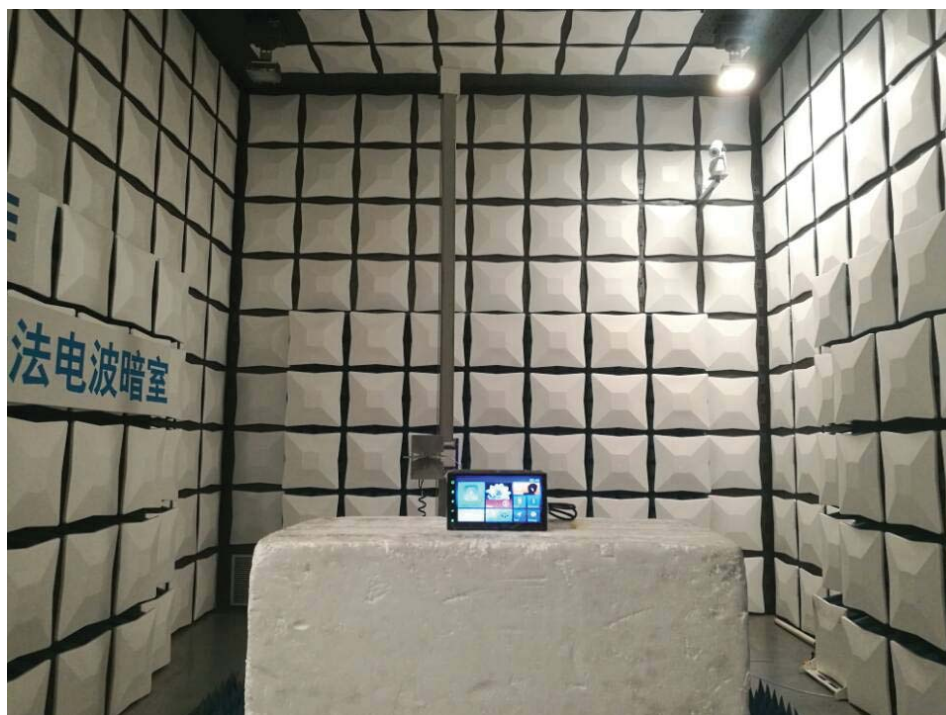
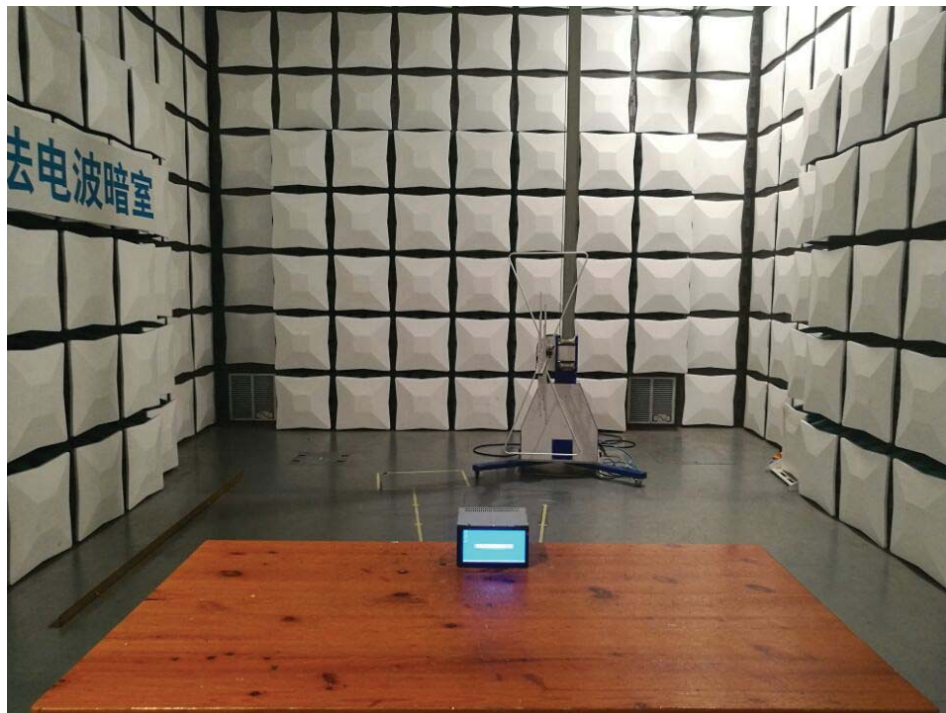
3. Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto.

Radiated Emission test (above 1GHz)

Freq (MHz)	Read level (dBμV)	Antenna Factor (dB/m)	PRM Factor (dB)	Cable Loss (dB)	Result Level (dBμV/m)	Limit (dBμ V/m)	Margin (dB)	Detector type	Polarization
Tx mode									
4804.00	35.60	33.74	29.32	8.46	48.48	74.00	-25.52	Peak	VERTICAL
6916.00	34.39	36.13	30.33	10.37	50.56	74.00	-23.44	Peak	VERTICAL
7936.00	34.74	36.69	31.11	11.10	51.42	74.00	-22.58	Peak	VERTICAL
8990.00	34.48	37.46	32.32	11.81	51.43	74.00	-22.57	Peak	VERTICAL
11030.00	32.95	37.73	34.03	13.49	50.14	74.00	-23.86	Peak	VERTICAL
12611.00	33.02	38.41	35.36	14.65	50.72	74.00	-23.28	Peak	VERTICAL
4804.00	34.95	33.74	29.32	8.46	47.83	54.00	-6.17	Average	HORIZONTAL
4804.00	40.92	33.74	29.32	8.46	53.80	74.00	-20.20	Peak	HORIZONTAL
6916.00	35.10	36.13	30.33	10.37	51.27	74.00	-22.73	Peak	HORIZONTAL
7715.00	35.12	36.64	30.99	10.98	51.75	74.00	-22.25	Peak	HORIZONTAL
8769.00	35.32	36.50	32.15	11.73	51.40	74.00	-22.60	Peak	HORIZONTAL
13223.00	34.26	39.03	35.54	14.73	52.48	74.00	-21.52	Peak	HORIZONTAL
Result: Pass									

Note: All mode have been tested, worse case was selected and recorded in this report.

5. Test setup photograph



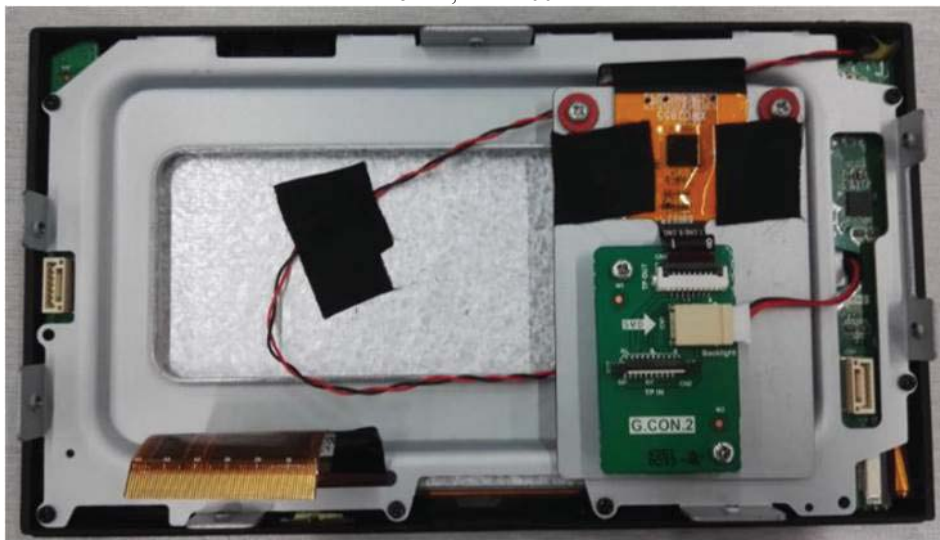
6. Photos of the EUT

NEW PANEL :

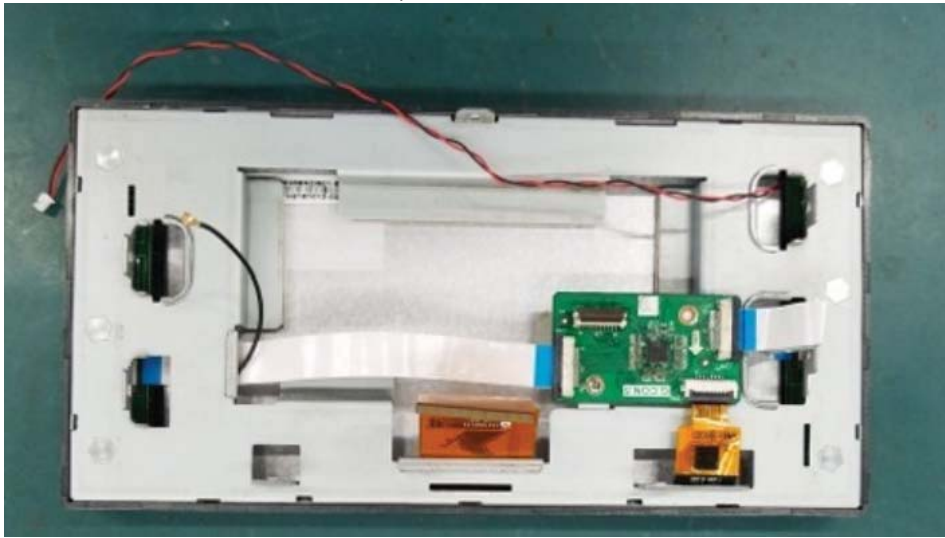
U701P, PCP9800, PCP9800A Panel



U621P, NV2400 Panel



U703PT, Santa Paula 750 Panel



END OF REPORT